Info-Hams Digest   Fri, 16 Jul 93   Volume 93 : Issue 864

Today's Topics:
                Alinco DJ-580 Intermod Reduction (2 msgs)
          America's Technology Store (was: new Radio Shack HT)
                    Arcing Antennas & CW Auto-Copy
                      ARES help in FLOOD zone???
                Chicago Scanner Ban, Changed legislation
       Communities that unduly restrict Amateur Radio operations
                        CW, CW everywhere!!!
                    Dipole antenna construction ?
                        KA7QJY Components?
                        ORBS$198.2liners
                  Req Verification of ARSENE Epoch 171
                         Teletype question
      WANTED: modification for Realistic CTR-85 tape recorder
                    What does it take to fry coax???

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

In article 18797@pixar.com, bruce@mongo.Com (Bruce Perens) writes:
>I got my HT back from Alinco today, after having sent it requesting that
>they modify it to reduce intermod. They turned it around in a week.

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>This message was on the shipping invoice:
>
>    BRUCE, WE HAVE REPLACED THE R419 AND THE R472 AND PERFORMED
                         -------------------------------
>    A GENERAL CHECK ON YOUR UNIT.  WE APOLOGIZE FOR ANY INCONVENIENCE!
>    IF YOU HAVE ANY QUESTIONS, PLEASE DO NOT HESITATE TO CONTACT US.
>    THANK YOU. ALINCO ELECTRONICS USA.
>
>So they do more than tweak a potentiometer. I'm assuming these two resistors
>set the gain of amplifiers in the R.F. or first I.F. stages. I left my
>schematic and battery pack at home, so you'll have to wait another day to
>hear how the performance has changed.
>                          Bruce Perens KD6OTD



hmm, I don't think there's much difference between replacing a resistor
and adjusting a potentiometer.  Maybe they should have used potentiomenters
instead in the first place so engineering afterthoughts would be easier.
Bob KD1GG

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Date: 16 Jul 93 15:51:55 GMT
From: ogicse!emory!news-feed-2.peachnet.edu!darwin.sura.net!rsg1.er.usgs.gov!
dgg.cr.usgs.gov!bodoh@network.UCSD.EDU
Subject: Alinco DJ-580 Intermod Reduction
To: info-hams@ucsd.edu

In article <226b9m$kqg@jericho.mc.com>, levine@mc.com (Bob Levine) writes:
|> In article 18797@pixar.com, bruce@mongo.Com (Bruce Perens) writes:
|> >I got my HT back from Alinco today, after having sent it requesting that
|> >they modify it to reduce intermod. They turned it around in a week.
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|> >
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|> >hear how the performance has changed.
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|>
|>
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|>
|> hmm, I don't think there's much difference between replacing a resistor
|> and adjusting a potentiometer.  Maybe they should have used potentiomenters
|> instead in the first place so engineering afterthoughts would be easier.
|> Bob KD1GG
|>
--
The big difference is that I haven't seen a miniature surface mount
potentiometer.  It's pretty tight inside the 580 and most other HT's...

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
+ Tom Bodoh - Sr. systems software engineer, Hughes STX, N0X?? (in the mail)  +
+ USGS/EROS Data Center, Sioux Falls, SD, USA  57198      (605) 594-6830      +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)
         +
+    "Welcome back my friends to the show that never ends!" EL&P
         +
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

In article <VBREAULT.93Jul16102843@rinhp750.gmr.com>, vbreault@rinhp750.gmr.com
(Val Breault) writes:

```
|>...
|> Another poster put it quite well when he said that the RS sales persons
|> are not there to help you, but to sell merchandise.  (Cold, hard reality
|> of life.)  Fortunatly, there are many many cases where the customer must
|> be helped in order to make the sale.  For example:  Most people don't have
|> a technical background, nor do they have much technical experience.  We
|> (the staff at the store where I work) take the time to explain the
|> differences between products and how those differences make one product
|> better suited to the customers needs than another.  That makes for good
|> customer relations ("He was quite patient and took the time to explain it
|> all to me and to answer all of my questions.") and it makes good marketing
|> sense too.  We want the customers to walk out the door with a good feeling
|> that they made the right choice.  That's how you build repeat business.
|>...
|> --
|> Val Breault - N8OEF - vbreault@gmr.com   \       /|
```

--
Honesty can be a problem for salespersons. When I was in high school, I

worked at K-mart selling stereos/etc. One day, a guy came in and said that
he really loved his daughter who was graduating from college and he wanted
to buy her a really good stereo. After looking to be sure that my boss
wasn't around, I told him that we only sold crummy stereos and that he would
be much better off going to a local electronics store specializing in
stereos. He was appreciative and I felt like I did the right thing. I never
could lie to customers who asked about the quality of the product. Of course
I was getting minimal wage and no comission. Now I see that they mostly sell
name-brand stuff...

++
+ Tom Bodoh - Sr. systems software engineer, Hughes STX, N0X?? (in the mail) +
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198   (605) 594-6830   +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)
           +
+   "Welcome back my friends to the show that never ends!" EL&P
           +
++

Date: 16 Jul 93 17:16:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Arcing Antennas & CW Auto-Copy
To: info-hams@ucsd.edu

>From: haven.umd.edu!cville-srv.wam.umd.edu!thieule@uunet.uu.net
>...and feeding the rig with a random wire thrown out of my bedroom window.
>...To make matters worse, under
>some circumstances, I can get a perfect 1:1 match with about 10w output, but
>when i turn up the juice, the rig immediately turns off...

I had a similar problem with an IC-725 plus tuner. Your antenna is probably
arcing at a certain voltage. The voltage is not high enough to arc at 10w
but is high enough at 100w. The voltages on a "random wire" can be pretty
high. Consider shoving 100w into 2000-j2000 and calculate the voltage.
It might even be arcing inside the antenna tuner or balun if you have one.
My setup arced to my water bed, my window frame, and a tree. I had to get
the wire about six inches away from anything and everything to get rid of
the problem.

73, KG7BK

Date: 16 Jul 93 16:31:50 GMT
From: ogicse!uwm.edu!spool.mu.edu!torn!newshost.uwo.ca!uwovax.uwo.ca!
ppddgc@network.UCSD.EDU

Subject: ARES help in FLOOD zone???
To: info-hams@ucsd.edu

Does anyone have any first hand knowledge of any Amateur Radio involvement
in the flooded parts of the US midwest? Our Red Cross is sending some
volunteers including some hams and any information would be of interest.

Dave Colvin VE3ZDC
University of Western Ontario
London, Ontario Canada

Date: Fri, 16 Jul 93 13:05:22 GMT
From: walter!porthos!dancer!whs70@uunet.uu.net
Subject: Chicago Scanner Ban, Changed legislation
To: info-hams@ucsd.edu

FYI to the amaetur radio newsgroups
Originally posted by:
In rec.radio.scanner article <CA7wFF.6BK@cbnewsc.cb.att.com>
rats@cbnewsc.cb.att.com (AOR AR-1000) writes:

The Chicago Sun-Times of July 14, 1993 (p. 14) had an article
entitled: "Too Much Static Kills Bid to Ban Scanners" by Fran Spielman.

Ald. Lawrence Bloom (5th) convinced the Police Committee to endorse
a substitute bill (the original bill was going to outlaw scanners
anywhere in Chicago) that will make it illegal to use a scanner to "aid
or abet the performance" of a criminal act after receiving "dozens"
of letters and phone calls from "amateur radio operators" who objected
to the original mobile scanner ban. Stupid, since it is already a
felony. However, it goes along with Bloom's comment about "I happen
to believe that printing [ordinances] is a very honorable profession."

(Comment from Bill Sohl, K2UNK) - Regardless of Alderman Bloom's
political rational, the important point here is that the original
legislation as proposed has been trashed and the new proposed
legislation will in no way affect amateurs or non-amateurs who
have radio equipment in their vehicle as long as they are not
commiting a criminal act.

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.

Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)
Morristown, NJ   email via UUCP   bcr!cc!whs70
201-829-2879 Weekdays   email via Internet whs70@cc.bellcore.com

----

Date: Fri, 16 Jul 1993 02:07:36 GMT
From: mnemosyne.cs.du.edu!mercury.cair.du.edu!elesatz@uunet.uu.net
Subject: Communities that unduly restrict Amateur Radio operations
To: info-hams@ucsd.edu

>Amateur radio needs to mount an effective public relations campaign. Local
>news stories on how hams helped during an emergency are good, but not good
>enough on a national scale. How about a segment on Good Morning America or
>CBS This Morning? Or, a segment on 20/20 or 60 Minutes on how effective
>ham radio has been during the Heartland Floods? This is real public
>relations.

I found it interesting this winter how the news went on and on about
some skiers that were lost in Aspen. It was the top story for at least
3 days.

A couple weeks later I saw a story about some people who became
trapped and "used a ham radio to call for help". A rescue team was
sent in and there were no problems. This episode drew no more
attention than a 15 second spot and I never heard anything else about
it.

This seems to be the general attitude. If a ham operator happens to
save the day nobody is really interested. What makes news is the
tragadies.

Eric N0UVD

Date: Fri, 16 Jul 1993 13:57:27 GMT
From: pacbell.com!sjhawk2@ames.arpa
Subject: CW, CW everywhere!!!
To: info-hams@ucsd.edu

Randy (randy@cyphyn.UUCP) wrote:
: ham@wam.umd.edu (Scott Richard Rosenfeld) writes:
: :
: : The other day I was out in my backyard picking blackberries (concentrating
: : CW, I guess. I was too ashamed to tell even my fiancee, who's a no-code
: : Tech, and I thought I'd find some people who might even understand... :-)
: :
: : CU on 20 CW,
: :
: : Scott NF3I

: :
Several times I have caught myself or been caught by other hams
whistling cw to myself. The first few times I felt a little crazy
any more I don't care.   de Steve WV6U

Date: 16 Jul 93 00:03:53 EST
From: elroy.jpl.nasa.gov!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!
bgsuvax!uoft02.utoledo.edu!tulip!mohan@ames.arpa
Subject: Dipole antenna construction ?
To: info-hams@ucsd.edu

Hello,

I am waiting for the license and wanted to make an antenna for HF operation.

The following have been my basic references:
1. Antenna Here is a Dipole - James W. Healy NJ2L - QST June 1991.
2. Feeding Dipole Antennas - James W. Healy NJ2L - QST July 1991.
3. Connecotrs for (Almost) All Ocassions - Part 2. - David Newkirk WJ1Z
     QST May 1991.

The following points are not clear to me.

If I want to construct a center-fed dipole for the 7.1 Mhz band,
the dimension for the dipole is given as 65ft, 11in.
Now, is this the distance between the holes of the insulators at the
support ends (including the length of the middle insulator/spacer), or is it
just the length of the wire not including the middle spacer.

And if I use a TS-520S transceiver and a dipole antenna made as in reference 1,
the transmitter and the antenna will be matched without me having to use
antenna tuners, and what about the SWR ?

Please let me know your opinion rergarding the above.

Thanks a lot for the information.
--mohan/Waiting for license.
===
+ Mohanakrishna Pakkurti   + mohan@jupiter.cse.utoledo.edu   +
+ HOME: 2239 University Hills Blvd #204, Toledo OH 43606. Phone:(419)536-9073 +
===

Date: 16 Jul 93 14:49:09 GMT
From: ogicse!uwm.edu!caen!malgudi.oar.net!news.ysu.edu!yfn.ysu.edu!

ag821@network.UCSD.EDU
Subject: KA7QJY Components?
To: info-hams@ucsd.edu

In a previous article, jfw@ksr.com (John F. Woods) says:

>I just got a flyer in the mail from "Dan's Small Parts And Kits", in
>Missoula MT. It apparently is Danny Stevig, who used to run KA7QJY Components,
>but now under a different name and a different state as well. Does anyone
>know what the deal is? I sent a letter a couple of days ago, and I think I'll
>call the old phone number tonight to see if he really has moved, but I
>wondered if any of the readers here knew the story.
>
>John, WB7EEL
>

Just got my first order .. ordered before he moved.

Now Dan's Small Parts and Kits
1935 S. 3rd W. #1
Missoula, MT 59801
1-406-543-2872

72

Jeff, AC4HF
--
Jeff M. Gold, AC4HF
Manager, Academic Computing Support
Tennessee Technological University

Date: 16 Jul 93 16:36:58 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$198.2liners
To: info-hams@ucsd.edu

SB KEPS @ AMSAT $ORBS-198.N
2Line Orbital Elements 198.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM N3FKV HEWITT, TX   July 17, 1993
BID: $ORBS-198.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ

```
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10
1 14129U 83 58  B 93188.53303997 -.00000143  00000-0  99999-4 0    66
2 14129  27.0196  16.9348 6027383  95.8219 331.6625  2.05886544 75682
UO-11
1 14781U 84 21  B 93195.61202625  .00000330  00000-0  60216-4 0  4245
2 14781  97.8097 220.7950 0010888 275.0132  84.9829 14.69027040500742
RS-10/11
1 18129U 87 54  A 93195.64332963  .00000088  00000-0  89554-4 0  6312
2 18129  82.9227 218.3152 0010229 236.9259 123.0889 13.72320228303619
AO-13
1 19216U 88 51  B 93193.27735507 -.00000133  00000-0  99999-4 0  6200
2 19216  57.9441 306.2624 7229040 319.3334   4.8950  2.09723491 38884
FO-20
1 20480U 90 13  C 93189.61407106 -.00000008  00000-0  10182-4 0  4509
2 20480  99.0338  41.7405 0541462  38.1460 325.6705 12.83220244160062
AO-21
1 21087U 91  6  A 93196.58350382  .00000085  00000-0  82656-4 0  8102
2 21087  82.9409  31.8129 0034280 304.1740  55.6204 13.74521797123343
RS-12/13
1 21089U 91  7  A 93194.70011642  .00000011  00000-0  53034-5 0  4104
2 21089  82.9221 262.4530 0029590 334.4617  25.5075 13.74023985122169
ARSENE
1 22654U 93 31  B 93171.50001791 -.00000049  00000-0  99999-4 0   117
2 22654   1.1154 126.6985 2945839 142.5535 241.8895  1.42200091   629
UO-14
1 20437U 90  5  B 93191.23722787  .00000098  00000-0  45905-4 0  7577
2 20437  98.6126 275.2544 0011687 111.7574 248.4850 14.29782054180729
AO-16
1 20439U 90  5  D 93191.23635073  .00000088  00000-0  41879-4 0  5629
2 20439  98.6208 276.1593 0011871 112.7565 247.4876 14.29841154180737
DO-17
1 20440U 90  5  E 93191.22361704  .00000087  00000-0  41709-4 0  5640
2 20440  98.6209 276.3627 0011639 111.3565 248.8858 14.29977166180746
WO-18
1 20441U 90  5  F 93191.26340100  .00000081  00000-0  39142-4 0  5666
2 20441  98.6203 276.4227 0012116 112.8955 247.3503 14.29956753180759
LO-19
1 20442U 90  5  G 93191.75360826  .00000082  00000-0  39665-4 0  5636
2 20442  98.6209 277.0903 0012885 110.9224 249.3345 14.30046454180830
UO-22
1 21575U 91 50  B 93191.22559993  .00000103  00000-0  41910-4 0  2628
2 21575  98.4720 266.9668 0006902 231.3193 128.7378 14.36837895103974
KO-23
```

```
1 22077U 92 52  B 93185.38088294  .00000000  00000-0  99999-4 0  1063
2 22077  66.0765 288.1820 0003939 181.8255 178.2750 12.86279208 42059
NOAA-9
1 15427U 84123  A 93197.09966434  .00000060  00000-0  41861-4 0  4150
2 15427  99.0982 237.7784 0016109  86.7752 273.5272 14.13531294442863
NOAA-10
1 16969U 86 73  A 93197.00205386  .00000119  00000-0  58889-4 0  2589
2 16969  98.5149 211.1598 0012176 229.5013 130.5110 14.24821093354732
MET-2/17
1 18820U 88  5  A 93191.02311804  .00000029  00000-0  20954-4 0  8749
2 18820  82.5423 180.7525 0018324  59.3743 300.9221 13.84687776275000
MET-3/2
1 19336U 88 64  A 93194.02258664  .00000043  00000-0  99999-4 0   477
2 19336  82.5404 203.6663 0018698  29.0963 331.1196 13.16959778238614
NOAA-11
1 19531U 88 89  A 93196.92048640  .00000092  00000-0  60094-4 0  1652
2 19531  99.1333 173.2853 0012230   3.0787 357.0453 14.12896235247732
MET-2/18
1 19851U 89 18  A 93194.67861196  .00000076  00000-0  62496-4 0  8128
2 19851  82.5191  53.8053 0015527  92.9242 267.3694 13.84340257220855
MET-3/3
1 20305U 89 86  A 93197.00591783  .00000043  00000-0  99999-4 0  7212
2 20305  82.5518 144.5414 0018576  41.4357 318.8170 13.16021360178899
MET-2/19
1 20670U 90 57  A 93194.86381434  .00000051  00000-0  40357-4 0  5657
2 20670  82.5475 117.2064 0017332  21.4305 338.7556 13.84178382153810
FY-1/2
1 20788U 90 81  A 93195.74840446 -.00000244  00000-0 -15056-3 0  5984
2 20788  98.8658 221.2746 0014735 225.6392 134.3566 14.01308372146440
MET-2/20
1 20826U 90 86  A 93194.64633721  .00000071  00000-0  59251-4 0  5696
2 20826  82.5253  55.3406 0012108 282.2356  77.7447 13.83554704140942
MET-3/4
1 21232U 91 30  A 93194.63761360  .00000043  00000-0  99999-4 0  3700
2 21232  82.5422  49.0308 0018463 330.0867  29.9199 13.16823474106801
NOAA-12
1 21263U 91 32  A 93197.08123349  .00000178  00000-0  88592-4 0  6212
2 21263  98.6544 226.6416 0013728 126.9349 233.3083 14.22286754112753
MET-3/5
1 21655U 91 56  A 93194.86917516  .00000043  00000-0  99999-4 0  4383
2 21655  82.5521 355.6676 0013956 327.4605  32.5656 13.16822825 91930
MIR
1 16609U 86 17  A 93196.07460589  .00002540  00000-0  35521-4 0  1769
2 16609  51.6204  79.4726 0005033 195.5489 164.5260 15.58753196423484
HUBBLE
1 20580U 90 37  B 93196.77152277  .00000482  00000-0  38358-4 0  1447
2 20580  28.4703 240.0415 0004518 347.3242  12.7213 14.92761200175797
GRO
```

```
1 21225U 91 27  B 93197.09516370  .00019558  00000-0  12988-3 0  9406
2 21225  28.4638  85.8396 0005941 264.8037  95.1907 15.73765024  4671
TUBSAT
1 21577U 91 50  D 93195.74301671  .00000063  00000-0  28404-4 0  2661
2 21577  98.4716 270.9666 0004910 221.6757 138.4055 14.36385052104591
SARA
1 21578U 91 50  E 93196.68753844  .00000422  00000-0  15193-3 0  4367
2 21578  98.4773 273.6495 0004242 206.6612 153.4357 14.38475853104825
UARS
1 21701U 91 63  B 93180.90809607 -.00000839  00000-0 -62477-4 0  2490
2 21701  56.9829 130.4931 0005121  81.4948 278.6647 14.96666224 98201
FREJA
1 22161U 92 64  A 93193.05977951 -.00000034  00000-0  69821-5 0  1408
2 22161  63.0017  72.8751 0770630 285.0089  66.6933 13.21649153 36845
/EX
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```

Date: 16 Jul 93 16:32:15 GMT
From: news-mail-gateway@ucsd.edu
Subject: Req Verification of ARSENE Epoch 171
To: info-hams@ucsd.edu

I have moved ARSENE into the OSCARS bulletin (from thre e MICROSAT BUull().

Also, NASA has listed Epoch 171 for ARSENE. Please let me know if this
is agood set or not.

Tnx & 73, Dick

Date: 15 Jul 93 20:51:42
From: elroy.jpl.nasa.gov!swrinde!gatech!concert!news-feed-2.peachnet.edu!umn.edu!
csus.edu!netcom.com!netcomsv!grumpy.symantec.com!grumpy.symantec.com!jka@ames.arpa
Subject: Teletype question
To: info-hams@ucsd.edu

I recently became the proud owner of a real honest-to-god
Teletype(TM). Two questions:

1. The ribbon is pretty dry. Is there some way to re-ink it? Do I
   have a prayer of finding Teletype ribbons.

2. How do I get this monster to talk to my modem or TNC (electricly,
   that is). It has an RS-232 (DB25) connector, but my friend tells

me that these things use current-loop (?) instead of voltage-level
signals. Anyone know what he's talking about?

Thanks a lot for any help.

- Jay, KE3AT

Date: Fri, 16 Jul 1993 00:47:07 GMT
From: pa.dec.com!uvo.dec.com!helles.unt.dec.com!ryn.mro4.dec.com!
salem.enet.dec.com!mcneill@decwrl.dec.com
Subject: WANTED: modification for Realistic CTR-85 tape recorder
To: info-hams@ucsd.edu

In article <CA7s97.8nu@ryn.mro4.dec.com>, mcneill@salem.enet.dec.com (Kevin
McNeill) writes...
>
>
>   REALISTIC CTR-85 MOD WANTED
>   --------------------------
>
>   Do you know how to modify the Radio Shack Realistic model CTR-85
>   Voice actuated cassette tape recorder (Catalog # 14-1056)?

        I NOW HAVE THE MOD...

        My thanks to Bob Parnass of AT&T Bell Labs for sending me the
        mods.

        His message suggested two:

        1) Solder a 1 K ohm resistor in parallel with ``R33'', wich is
            a 27 K ohm resistor. This will give a VOX hang time of about one
            second.

            --- OR ---

        2) Put a 10K ohm resitior across C23 (100uf).

        Varying the value of the resistor will change the hang time.

        I have not tried the MOD yet but I am sure it will work.

        THANKS AGAIN BOB !

Regards,

             Kevin

        +++
        + Kevin J. McNeill | internet: +
        + Digital Equipment Corporation *| mcneill@salem.enet.dec.com +
        + 9 Northeastern Blvd. | +
        + Salem, NH. USA 03079 | TEL: 603 894-2555   +
        +++
        + *DISCLAIMER......   +
        + My comments are my own and may not reflect those of Digital +
        + Equipment Corporation.   +
        +++

Date: Fri, 16 Jul 1993 12:52:54 GMT
From: sdd.hp.com!math.ohio-state.edu!howland.reston.ans.net!gatech!
mailer.cc.fsu.edu!freenet.scri.fsu.edu!marshall@network.UCSD.EDU
Subject: What does it take to fry coax???
To: info-hams@ucsd.edu

well i can tell you that from living in Arizona for 9 years that exposing
coax to the hot Arizona sun might not fry it but it surely can destory
not only the outter jacket but likewise the dielectric.

now that i am in Florida i now have swamp water and some 4 to 6 foot
funny looking very large mouth long taicrawling things that eat
fried coax.   hee hee   art w1fji
--

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End of Info-Hams Digest V93 #864
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